B. Foley

1648

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RAW SEQUENCE LISTING DATE: 02/22/2002
PATENT APPLICATION: US/09/509,712B TIME: 11:36:06

Input Set : A:\W125502.txt
Output Set: N:\CRF3\02222002\I509712B.raw

PS

ENTERED

<110> APPLICANT: Rubin, Donald H.
Organ, Edward L.
DuBois, Raymond N.
<120> TITLE OF INVENTION: Mammalian Genes Involved in Viral Infection and Tumor Suppression
<130> FILE REFERENCE: 01123.0004
<140> CURRENT APPLICATION NUMBER: 09/509,712B
<141> CURRENT FILING DATE: 2000-03-31
<150> PRIOR APPLICATION NUMBER: PCT/US98/21276
<151> PRIOR FILING DATE: 1998-10-08
<150> PRIOR APPLICATION NUMBER: 60/062,021
<151> PRIOR FILING DATE: 1997-10-10
<160> NUMBER OF SEQ ID NOS: 127
<170> SOFTWARE: FastSEQ for Windows Version 4.0
<210> SEQ ID NO: 1
<211> LENGTH: 925
<212> TYPE: DNA
<213> ORGANISM: Rattus norvegicus
<220> FEATURE:
<221> NAME/KEY: misc_feature
<222> LOCATION: 1- 925
<223> OTHER INFORMATION: n = g, a, c or t(u)
<400> SEQUENCE: 1

W--> 36 ggggaaaac cnggnaattg ttttttgacg anccaaaaag gggncnagna gcnnttntcc 60
W--> 37 tanatggggn cgggatcntn tccnaggana gattnatgga gtatnccttt tttgcncnaa 120
W--> 38 ggttgattgc tcttgaaagg ntttgaggtg naattcctcc gtnagtttga ccgtagtcgg 180
W--> 39 atntgaagag ggattgttna gcagncataa tttcattccc tgnacaccca gtaacnnttt 240
W--> 40 accgtcattt ggttgggaat tgatntcggg aggtancaan ggccacagtt atttattgtt 300
W--> 41 ncggaggatt gcaccaattn ggccggctgc ctctganatc tgtttctcat ccatgccggt 360
W--> 42 tcacccagac gaaagccgaa agcntcggga gtcctaactn tagtccntga aagtcattcc 420
43 cagctgcgta attgggctgt gcagagtccc agctcggtaa atatttgccc cgtgactgag 480
44 ctggagagaa tgctcctttc ttggtcctgg gcagctcttg gcagctcaca tgcactgttt 540
45 acctatcctc ccacattccc ccctgaggaa tcatcgtgcc tcggttccct taagtcctct 600
46 caacagaaaa caaggcagag tggaacgaag gaaagtgcgt ggccgttaga aagcctgtct 660
47 cgaatctgtc ccacgtgcct caggtagcgt tccaaacagc aaagattcta gtgaagaaaa 720
48 ataccgtccg gtcaattagt caggtggaca gagcaggacc cggtgtcttg gaagcctcgt 780
49 ccattcctct ggggaaggtg gggggggcg tgtaatgcag ctctcaagaa gaaggtattt 840
50 ttgttttcct ggagaaactg ccatcccagg agctgagagt ggatcagtag gaaggcctgt 900
W--> 51 gacaggaagc agggaggttc agcng 925

<210> SEQ ID NO: 2
<211> LENGTH: 554
<212> TYPE: DNA
<213> ORGANISM: Rattus norvegicus

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60 <220> FEATURE:
61 <221> NAME/KEY: misc_feature
62 <222> LOCATION: 1- 554
63 <223> OTHER INFORMATION: n = g, a, c or t(u)
65 <400> SEQUENCE: 2

W--> 66 caagatngan ggggcggcgg ttcgnccaga gagcgggtag ggaagggaac gcgccggatg 60
W--> 67 agccngggtg cgganagcca gaccccaggc gtgggaaggg gagagagata gagcggccgg 120
W--> 68 ttgggaagag gaggaccgtg gttnataaat aacagaaagc ccagagggac gtanccatcc 180
W--> 69 gggatggaga gaggtaggga atccagntgt aagtcccaaa ctgccaccac cttcatnaga 240
W--> 70 actgcttcgt gtaaggtcac gcaccgggcc agctgtccng agtggcggtc ctggcgtgtt 300
W--> 71 aagttagcta aagtnactgc aactccgnct gtgcagactg ntcgtaaatt ctctctgtcc 360
W--> 72 gccaaattct ccctcctatt aaacttttca cttcctttca cttagtttcc tnacttcttt 420
W--> 73 caaacggaag ctgtaactga gcctgccacc cnganacntt gtggttgcca tttttatgct 480
W--> 74 aaagtaatcg tgtttttttat gcctgtcaac tccctttca tntaaagcag ggcntaccct 540
75 attataactc tgcc 554

77 <210> SEQ ID NO: 3
78 <211> LENGTH: 891
79 <212> TYPE: DNA
80 <213> ORGANISM: Rattus norvegicus
82 <220> FEATURE:
83 <221> NAME/KEY: misc_feature
84 <222> LOCATION: 1- 878
85 <223> OTHER INFORMATION: n = g, a, c or t(u)
87 <400> SEQUENCE: 3

W--> 88 ttngaaanaa tttccgtnaa ggtcngnaat nggccccgga aaaaatgngt tcctccccac 60
W--> 89 cttcattggn gcggatcctg ccngggaggc caatggttta acaaataatc tttnggagnt 120
W--> 90 ntggtngggg ggggagggac ncccacagan tcatgnggtg gttngggngg ngggcatcgt 180
W--> 91 tnngatatta tcacattntg ngaanctatg tnggggcttc ctttcngaca ggtggtggtt 240
W--> 92 nnacangngg atgtgtgctt ctttttttcag cagtggtgga cccggattct aagaccctta 300
W--> 93 cngtaacaat gccctntttt cctaagccta accagtcctt tangaggant gctcttgggn 360
W--> 94 acccatgctg nntcacctag ccttggntca catnttnnac acaggaaaag gcagcatgtc 420
W--> 95 ttntnggagc tcagcttatt cccttcccnt cccatccagn atctccctgg gntggatgag 480
W--> 96 gtggatgacg catcttcaaa gcaccccacg tntcatggga tgtgcacagg agcttcgttg 540
W--> 97 gaaatgtgtt gcgcgaccag gcttgtgtag gaaacaacag actactcgaa attaaagtcn 600
W--> 98 taccttgcag ggttctcaga ggcttttacg cattaataaa catttgaatc ntaagaaggg 660
W--> 99 agcacagcat gtaatattnt tcaaattatc aggcnttgca accttcatta gtttctctta 720
W--> 100 cgcagctggg ngtggtggtg tgtaccttta atctcagcac tgaggaggca cngatatctc 780
W--> 101 catctctgtg acttccagac cggcntcgcc agagcaagtt ccaggccacc cagatgagat 840
W--> 102 gctcacagag gggacctttt tntgatgacc aacgnagnat gcaagtaagg a 891

105 <210> SEQ ID NO: 4
106 <211> LENGTH: 974
107 <212> TYPE: DNA
108 <213> ORGANISM: Rattus norvegicus
110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: 1- 974
113 <223> OTHER INFORMATION: n = g, a, c or t(u)
115 <400> SEQUENCE: 4

W--> 116 aaaanaanat attccgnntc tnntagcnna gaagttntnc gagcnntccc ccgtnttttt 60

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Input Set : A:\W125502.txt
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W--> 117 aaaaacccnc ggattccggn nntcgggntt taanngnttt tttaanggcc cnaagncccn 120
W--> 118 nttattgccg ncntttcccc cccgctnttg cnccccttta cttngagant ngtgntncna 180
W--> 119 agatttnaag gttnttgccc ccccggcttt tnttcccctn nttttccccn nagntttaaa 240
W--> 120 accggtntgg gttncnantt nnttgnancc nccnattggg gtttccgntt accngggttt 300
W--> 121 ttccccatgn ccgttccctc caatnttgna cttcccnggt cngggtccna atnccnngna 360
W--> 122 acngntcnan ccttattgac aattaatttt tccttgngna ntctgncccc cngnantttg 420
W--> 123 gggttcttgg gngcagggcc ttttttttcnt tggnngcaan cncataaatn ttaccagntt 480
W--> 124 gattgctaag gaagtancca tggttgngaa ccccccccttn ttntctccca gatggaaccc 540
W--> 125 aggattttgg aactgcagag gcttcagggt cttgggaagc ggaggcagnn aaagattgga 600
W--> 126 gtgcactgtc cttttgcaat atggggtttg cctgcctgct ggctcntctc ctgctntntc 660
W--> 127 agatggtgac tgaggctact tcngcaggac tnggaataat catgtccagg tggctgccct 720
W--> 128 tccgagcaga aagggacaga cgtggggcga tgaagttgct atcgtttntt ttttttctg 780
129 cacagactgc aaagtgtgca gagggaggga ggctgtgcaa aaaaaaaaaa aaaaaaaaaa 840
130 aaaaaaaaaa ccgaggacgc agaagttaga ctgctgaccc atttggtgca tgtgtgccca 900
W--> 131 tggagggagg ggaccttntt taaagggttc acgcggcacg cantgggnaa nngnnccttnt 960
W--> 132 acgnnnctcc caga 974
134 <210> SEQ ID NO: 5
135 <211> LENGTH: 850
136 <212> TYPE: DNA
137 <213> ORGANISM: Rattus norvegicus
139 <220> FEATURE:
140 <221> NAME/KEY: misc_feature
141 <222> LOCATION: 1- 850
142 <223> OTHER INFORMATION: n = g, a, c or t(u)
144 <400> SEQUENCE: 5
W--> 145 anttttccct caagnaaant ntggtttggg caacttgaag acgcttnnac cnaaaaccct 60
W--> 146 tgnggagntt ggngaccttn ttaccgnaan gagtgggaaa cgttttcctc cgggttnang 120
W--> 147 gttaggggga cccgnnggaa aattttaaaa ccnngngggc tttttcgaat taaggggaaa 180
W--> 148 ngcggtttng gtnnntgaag ggcgggnggt tggagtcnna gtccagagtt gatttccacc 240
W--> 149 cacaaatntg ggaggtgncg gggaatgntg ncnttttctt gngatgaggg ntgccgtncc 300
W--> 150 ggantaacag ngnttgcntt gtntngcnaa acgaagagtn tcctgnttgg aataggngtt 360
W--> 151 cngttcgang ganccagatt tangngntgg agnaaggatt nggcagataa angcntgaga 420
W--> 152 natgnancnt ggancaggtc nggncnnagn ntacagatga tgnncccana canganataa 480
W--> 153 ntncagatca cagtcgtacc cgnggctggg ccatgaanag ggcatcccca gacnnacaca 540
W--> 154 ngccttnana antgntcaga gaaccancag tggntanggg ntgcccnnnn naccagggaa 600
W--> 155 gacccggggc gtgncggata ttgacacanc agatnncatt tggggncggt tcgagggttn 660
W--> 156 atgntcnccg agtacnagan angatcntcc aacccggaat ncggtgctcc ngtcgtccga 720
W--> 157 tgnaatgagt cgnccggnaa cctcatatcc aagaaacnat acagcagtgg nntccgagtc 780
W--> 158 tcgtatantc nttgcgggng gaggctatnt tcagaggnca agattaccgt tagcgggana 840
W--> 159 aagtngaana 850
164 <210> SEQ ID NO: 6
165 <211> LENGTH: 531
166 <212> TYPE: DNA
167 <213> ORGANISM: Rattus norvegicus
169 <220> FEATURE:
170 <221> NAME/KEY: misc_feature
171 <222> LOCATION: 1- 531
172 <223> OTHER INFORMATION: n = g, a, c or t(u)
174 <400> SEQUENCE: 6

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Input Set : A:\W125502.txt
Output Set: N:\CRF3\02222002\I509712B.raw

```
W--> 175  ttgnggcngg gtctcctctg ngtgngngtn tccccnanag ggggggtctc acagtgtnng      60
W--> 176  ngtctnntgt ctgtgtngtg cccctgtccn catctctcac nccagggaga gagatgtgag     120
W--> 177  ananacatca gagatctctn gnacagtgtt tcacaagagt ctatcncana gagcacatct     180
W--> 178  gcccggggng anacacaact ctaaatgtgt ctcanntgat ctctctnttg tgtctctnac     240
W--> 179  atatgnggac atgctctcag agtatnggnt ctcttgngcn cttntgcaca cacacacaca     300
W--> 180  cacacacaca cacacacaca cacncttctc tctggcacag ggntatggca nagcacatnt     360
W--> 181  tnngagntca nagctntata tgagtgtgtg gcgaaaggng tnatnanann gacnncccca     420
W--> 182  gcnnatatag gggggngnnc tctngggctc tcttnggnaa tntgngggng agtctgcnca     480
W--> 183  cacaggcgct cnnacccanc nnnttggggc cccccaggng tttttcnccc c              531
      185 <210> SEQ ID NO: 7
      186 <211> LENGTH: 572
      187 <212> TYPE: DNA
      188 <213> ORGANISM: Rattus norvegicus
      190 <220> FEATURE:
      191 <221> NAME/KEY: misc_feature
      192 <222> LOCATION: 1- 572
      193 <223> OTHER INFORMATION: n = g, a, c or t(u)
      195 <400> SEQUENCE: 7
W--> 196  tttttntgtg gcccttaaa ctctgngtgn ccgtntnccc nagaggggggg gtctcacaag      60
W--> 197  gagacancgg nnacacagag gttttgngnn tattgngagt ctctgcgcac nccananttt     120
W--> 198  aaccncgggg nctcntgttt tattttaaaa aaaaagagtc ncatgtntat ttctctnatg     180
W--> 199  tgaaaatcnc attcanagtt ntggggtttc ccntgaggag anatagagtt tcacactctt     240
W--> 200  ctctccgagg ggtcntcnca tgtntctccc caatgtgngn ggnacacaca tgnggccccn     300
W--> 201  agggggtgng ctctctctgc ncagggcncc ccccaanang tagaganaca ntgtggtgtt     360
W--> 202  tcacaacaca attcncgaga nattntgttc cncantggnn gtctnagntc ncatgttgtg     420
W--> 203  gngacangtt agnncncccc atnttcnccc ccctttcaca ctgccccnag agagagaaan     480
W--> 204  tctnggcccc ctctanannt ntttttaaat cnccccnnac cacaggtntt cccagggtat     540
W--> 205  gngacntcnc cnnccccncn aaagatntgc nc                                   572
      207 <210> SEQ ID NO: 8
      208 <211> LENGTH: 906
      209 <212> TYPE: DNA
      210 <213> ORGANISM: Rattus norvegicus
      212 <220> FEATURE:
      213 <221> NAME/KEY: misc_feature
      214 <222> LOCATION: 1- 906
      215 <223> OTHER INFORMATION: n = g, a, c or t(u)
      218 <400> SEQUENCE: 8
W--> 219  tgggagtctc tctcatatgg cgcnttcncc aaaggggngt ctctntccng agncgcanac      60
W--> 220  gcgagaanac tctgtnnant ngtctccccc cncnccnaca gngtganant caaaacctct     120
W--> 221  agagcccccc agaaancccc tntctcaaan aaagagaaag agaagancga gnagnagaga     180
W--> 222  gananagaga gagagagtgt gganctntnt cctcngancc ccannnanan ngtgnggcnc     240
W--> 223  actcncnngt gnngngnacc ccnggggatt tncgcgtgtc cccttgngct ctgtntanga     300
W--> 224  gananatatg tntagtctct ctntcgcccc ctccgntgtc acgtgtgcgg ggcccnngag     360
W--> 225  acacagacac ntctctcang gggaacacat anngactcnc acntgtgttt atattcnccc     420
W--> 226  ctcccnctca cacanacaca cacacagnag atattnngct actctctctc tgtcacaggg     480
W--> 227  gtacanattt antctnggcc anacccctct cngaagngng ggcanngtaa accccgcccc     540
W--> 228  ctctcngaga angngagggc gntttacntt cccngtggcg tgtncgngcc cccgagactc     600
W--> 229  cccttngnac ccccctntna accctctntt tgaacncaac ncaccntccc cnttttctcg     660
W--> 230  gggnnggncc ngcncccnct ctcncaaaaa aaattnnaan ttngtcccct ncccctttnt     720
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Input Set : A:\W125502.txt
Output Set: N:\CRF3\02222002\I509712B.raw

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W--> 231  ttcnggnana aaccgtgtcc ggggggggan nactcttttt tgnccttaaa atcaantttt     780
W--> 232  ttccccttt ccnggggacc cccgnnttcc tttttaaaaa aaaanaaccc tttctccctt     840
W--> 233  ttaaaagnac ccnttttttc naaaaccgtt ccgnatttaa ttcctaaatt cccttccccn     900
W--> 234  ncccgg                                                              906
      236 <210> SEQ ID NO: 9
      237 <211> LENGTH: 914
      238 <212> TYPE: DNA
      239 <213> ORGANISM: Rattus norvegicus
      241 <220> FEATURE:
      242 <221> NAME/KEY: misc_feature
      243 <222> LOCATION: 1- 914
      244 <223> OTHER INFORMATION: n = g, a, c or t(u)
      246 <400> SEQUENCE: 9
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W--> 248  gactcccatc tctntntntn cccccaganc tggngaacgg ngtgtggnga nccntntctg     120
W--> 249  ttctcnantc tctaaaagng cnaaaagcgc ananacacgn gcctctctat anatctcacg     180
W--> 250  tgtcccnngn nctctcngac ccctnntctg tntgagagac accctntctc aaaatatagt     240
W--> 251  gtacacgngc tttgnggctc tccccttttc tctccactnt tgagngngaa acgcggngtt     300
W--> 252  ntctctgaga tgtaganagn gtcccctnct cnatatatgt gttncccact ccnnagggng     360
W--> 253  tctcataaaa atcncntntc tcaacaccac cncctcnacc ccccncacga gaacacntcn     420
W--> 254  ccaccncnan gacacaaana naaggngtnn anaaccccan aaaaactnng ntntcngntt     480
W--> 255  tacacacaca cacacncacn ctcncncaca cccccacnna aatgggagaa aaaacagaga     540
W--> 256  ggngtgggtg ttngnntcaa caccntntta cctctctgnt gnnanttgag aaaatatttc     600
W--> 257  tntncttacc cctctccccc ctctgtgtgt ngannatatc ngntctagat gtcctnaccc     660
W--> 258  tccccaaacc tttctcnggn agagacntct ctntnttttt ccccccnctte catttgaaan     720
W--> 259  anangagaag gnccaaaaag gnggggngtct tctcgggaat ncncccttttt ggccccccaa     780
W--> 260  cctgggtttt tttcccccctt ccttttaatn anttttttcna nacaaanctt tnngngtttn     840
W--> 261  ggaaaangcc tttnnctgnn nnttttttcc cttcccccttt tnnangggnt tccccccccc     900
W--> 262  ccngaatttt tttt                                                      914
      264 <210> SEQ ID NO: 10
      265 <211> LENGTH: 400
      266 <212> TYPE: DNA
      267 <213> ORGANISM: Rattus norvegicus
      272 <220> FEATURE:
      273 <221> NAME/KEY: misc_feature
      274 <222> LOCATION: 1- 400
      275 <223> OTHER INFORMATION: n = g, a, c or t(u)
      277 <400> SEQUENCE: 10
      278  ttcctgggtg cggtctcctc tgagatagtg tatcccctat aggggggtc tcactttagc      60
      279  acagtttatg aatattatta catatttcac aagactttat attgttataa tatgcctcat     120
      280  gtgagatata tgtgattctg tggtggtgtt ctcagagggg gtttgggtta ttggggataa     180
      281  tagtttgccc ctcgcggggt ctatatttat atatgtgaca caatatatta gagagatttt     240
      282  tggttatata tatttccctt cgcgggggtg gagatttatc acaggggggag agcttttccc     300
      283  ttgttagcaa aagtccctgg tctcgtcccc catctcccaa aaaaaaaaaa atgtgaaaaa     360
      284  aaaaaaaaaa agggcccctc ttgagtgatg tcccctctt                           400
      286 <210> SEQ ID NO: 11
      287 <211> LENGTH: 880
      288 <212> TYPE: DNA
      289 <213> ORGANISM: Rattus norvegicus
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Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY DATE: 02/22/2002
PATENT APPLICATION: US/09/509,712B TIME: 11:36:08

Input Set : A:\W125502.txt
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L:36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:37 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
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L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5

VERIFICATION SUMMARY DATE: 02/22/2002
PATENT APPLICATION: **US/09/509,712B** TIME: 11:36:08

Input Set : **A:\W125502.txt**
Output Set: **N:\CRF3\02222002\I509712B.raw**

L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:906 M:283 W: Missing Blank Line separator, <400> field identifier
L:3367 M:283 W: Missing Blank Line separator, <220> field identifier